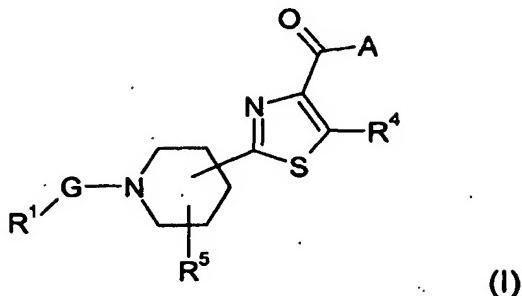


CLAIMS

5 1. Compounds of the formula (I):



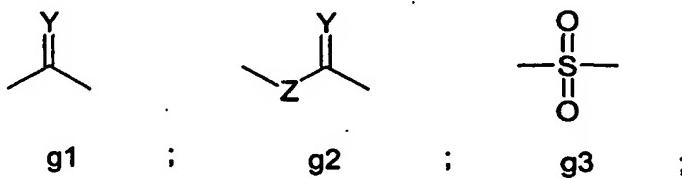
in which:

- A represents a radical chosen from the radicals a1 and a2 below:



10 a1 ; a2 ;

- G represents a divalent bond or radical chosen from the groups g1, g2 and g3 below:



- R¹ is chosen from hydrogen and an alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, alkylcarbonyl or alkoxy carbonyl radical;
- R², R³ and R⁴, which may be identical or different, are chosen, independently of each other, from a hydrogen atom, an alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl or heteroaryl radical and a radical -NRR'; or

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- R² and R³ together form, with the nitrogen atom that bears them, a heterocycle;
- R⁴ and R⁵, which may be identical or different, are chosen, independently of each other, from a hydrogen atom, an alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl or heteroaryl radical and a radical -NRR';
- R and R', which may be identical or different, represent, independently of each other, a hydrogen atom or a radical chosen from alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl and heteroaryl; or together form, with the nitrogen atom that bears them, a heterocycle, or together form the double bond of an alken-1-yl radical;
- Y represents an oxygen or sulfur atom; and
- Z represents -NH- or an oxygen atom;

15 the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;
and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

20 2. Compounds according to Claim 1, for which the radical R⁵ represents hydrogen,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

25 and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

30 3. Compounds according to Claim 1 or Claim 2, for which the radical R⁴ represents hydrogen,

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the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

4. Compounds according to any one of the preceding claims, in which the thiazolyl radical is branched in position 3 or in position 4 of the piperidine nucleus,

10 the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

15

5. Compounds according to any one of the preceding claims, in which the thiazolyl radical is branched in position 4 of the piperidine nucleus,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, 20 the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

25

6. Compounds according to any one of the preceding claims, in which

G represents the radical g1,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

30

and also the possible pharmaceutically acceptable salts thereof with an

acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

7. Compounds according to any one of the preceding claims, in which G represents the radical g1 and Y represents an oxygen atom,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides; thereof,
5 the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

8. Compounds according to any one of the preceding claims, in which
10 the radical R⁴ represents hydrogen, the radical R⁵ represents hydrogen, the thiazolyl radical is branched in position 4 of the piperidine nucleus, and G represents the radical g1 in which Y represents an oxygen atom,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof,
15 the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

9. Compounds according to any one of the preceding claims, in which
20 R¹ represents an aryl radical, especially phenyl, substituted by one or more aryl and/or alkyl radicals,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

25 and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

10. Compounds according to any one of the preceding claims, in which
R¹ represents a biphenyl radical, optionally substituted by one or more alkyl radicals, preferably methyl, ethyl or propyl, and/or with a perhaloalkyl or perhaloalkoxy radical,
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the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

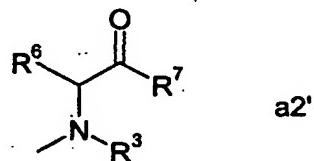
and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

11. Compounds according to any one of the preceding claims, in which A represents a2,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

15 12. Compounds according to any one of the preceding claims, in which A represents a radical of the formula a2' below:



in which R⁶ and R⁷, which may be identical or different, and independently of each other, have the same definitions as the radicals R² and R³ defined in Claim 1,

20 the other substituents having the same definitions as those given above,

the possible geometrical and/or optical isomers, epimers and various tautomeric forms, and possible oxidized forms, especially amine oxides, thereof, the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

13. Compounds according to any one of the preceding claims, in which G represents the radical g1, with Y representing an oxygen atom, R¹ represents a biphenyl radical, optionally substituted by one or more alkyl radicals, preferably

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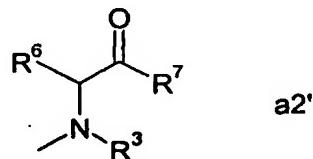
methyl, ethyl or propyl, and/or a trifluoromethyl or trifluoromethoxy radical, and A represents a2,

the other substituents being as defined above,

the possible geometrical and/or optical isomers, epimers and various
5 tautomeric forms, and possible oxidized forms, especially amine oxides, thereof,
the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an
acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

10 14. Compounds according to any one of the preceding claims, in which
G represents the radical g1, with Y representing an oxygen atom, R¹ represents a
biphenyl radical, optionally substituted by one or more alkyl radicals, preferably
methyl, ethyl or propyl, and/or a trifluoromethyl or trifluoromethoxy radical, and A
represents a2' of the formula:



15

in which R⁶ and R⁷, which may be identical or different, and independently of each
other, have the same definitions as the radicals R² and R³ defined in Claim 1,
the other substituents being as defined above,

the possible geometrical and/or optical isomers, epimers and various
20 tautomeric forms, and possible oxidized forms, especially amine oxides, thereof,
the solvates and the hydrates of these compounds;

and also the possible pharmaceutically acceptable salts thereof with an
acid or a base, or the pharmaceutically acceptable prodrugs of these compounds.

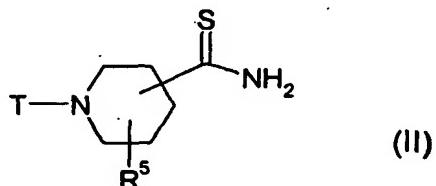
25 15. Compounds according to any one of the preceding claims, chosen
from:

- N-ethyl-N-(1-methyl-2-oxo-2-phenylethyl) 2-[1-(4'-trifluoromethyl-biphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carbamate;

- N-ethyl-N-(1-methyl-2-oxo-2-pyrid-3-ylethyl) 2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carbamate;
 - N-ethyl-N-(1-methyl-2-oxo-2-phenylethyl) 2-[1-(6-methyl-4'-trifluoromethoxybiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carbamate;
 - 5 - N-ethyl-N-(1-methyl-2-oxo-2-pyrid-2-ylethyl) 2-[1-(6-methyl-4'-trifluoromethoxybiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carbamate.
 - N-[cyano(4-fluorophenyl)methyl]-N-phenyl-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide ;
 - N-(α -cyanobenzyl)-N-ethyl-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide ;
 - 10 - 2-{1-[4'-(trifluoromethyl)-1,1'-biphenyl-2-yl]carboxyl}piperid-4-yl}-1,3-thiazole-4-carboxylic acid
 - 1-(4-{4-(3-hydroxypiperid-1-yl)methanoyl}thiazol-2-yl)piperid-1-yl)-1-(4'-trifluoromethylbiphenyl-2-yl)methanone
 - 15 - N-methyl-N-(1-methyl-2-oxo-2-phenethyl)-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide
 - N-methyl-N-(1-methyl-2-oxo-2(S)-phenethyl)-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide
 - N-(7-oxo-7H-thieno[3,2-b]pyran-6-yl)-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide
 - 20 - N-(2-methyl-4-oxo-4H-chromen-3-yl)-2-[1-(6-methyl-4'-trifluoromethoxybiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide
 - N-(α -cyanobenzyl)-N-isopropyl-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide ; and
 - 25 - N-[1-cyano-1-(pyrid-4-yl)methyl]-N-isopropyl-2-[1-(4'-trifluoromethylbiphenyl-2-carbonyl)piperid-4-yl]thiazole-4-carboxamide;
- the optical isomers thereof, oxidized forms, solvates and hydrates of these compounds;
- and also the possible pharmaceutically acceptable salts thereof with an acid, or
- 30 the pharmaceutically acceptable prodrugs of these compounds.

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16. Process for the preparation of a compound according to any one of Claims 1 to 15, characterized in that a compound of the formula (II):

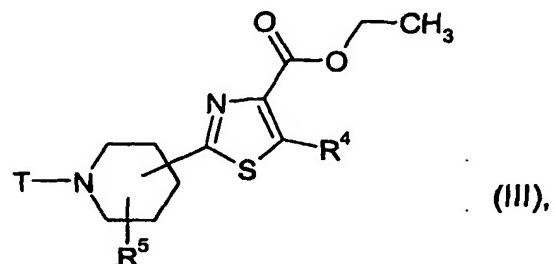


in which T represents a labile protecting group, and R⁵ is as defined in

5 Claim 1,

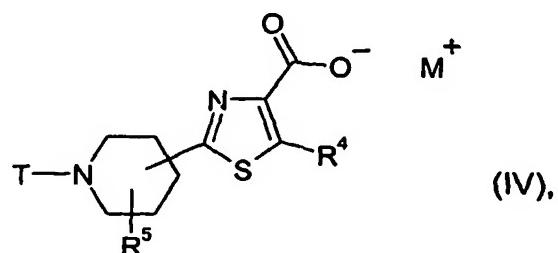
is reacted with ethyl R⁴-bromopyruvate, generally in equimolar proportions, in a polar solvent, in the presence of an excess of base, preferably an organic base, at a suitable temperature, for a time ranging from 1 to 40 hours and preferably between 4 and 18 hours,

10 so as to form the thiazolyl ring and give the compound of the formula (III):



in which T is as defined above and R⁴ and R⁵ are as defined in Claim 1,

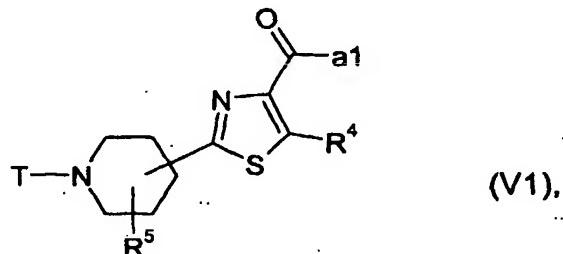
which compound of the formula (III) is then saponified with a base, of alkali metal or alkaline-earth metal hydroxide type, in polar medium, at room temperature, for a time ranging from 1 to 12 hours, so as to form the salt of the formula (IV):



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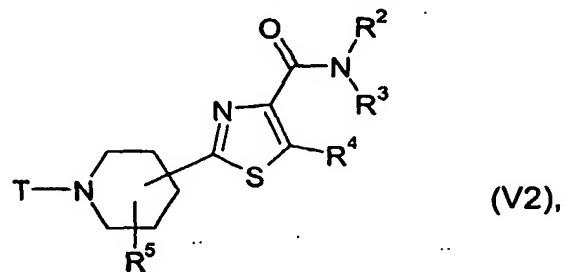
in which T, R⁴ and R⁵ are as defined above, and M⁺ represents the alkali metal or alkaline-earth metal cation derived from the base that is useful for the saponification reaction,

which compound of the formula (IV) is next hydrolysed and then/or esterified to a compound of the formula (V1):



in which R⁴, R⁵, a1 and T are as defined above,

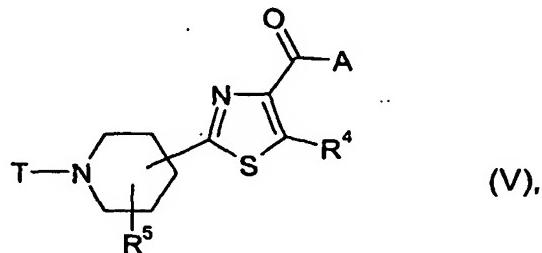
or converted into the corresponding amide of the formula (V2):



in which R², R³, R⁴, R⁵ and T are as defined above,

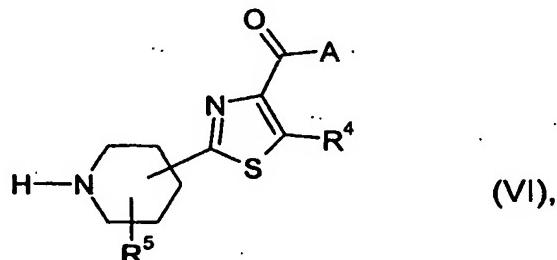
via the action of an amine of the formula HNR²R³, in the presence of a base and a catalyst, in a polar aprotic solvent, at room temperature, for a time that can range from 1 to 50 hours.

the compounds of the formulae (V1) and (V2) together forming the compound of the formula (V):



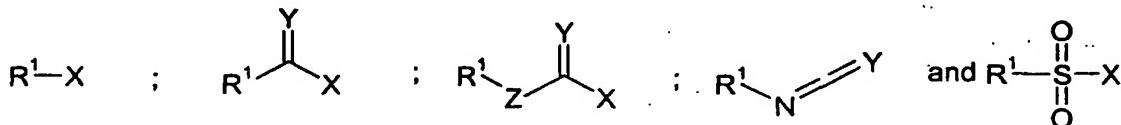
in which R⁴, R⁵, A and T are as defined above,

which compound of the formula (V) is then used in a reaction for deprotection of the amine function of the piperidine ring, via the action of an organic or mineral acid, in dichloromethane or dioxane medium, at room temperature, for a time ranging from a few minutes to a few hours, generally ranging from five minutes to 12 hours, to give the compound of the formula (VI):



which is a special case of the compounds of the formula (I), in which R¹ represents hydrogen, G represents a bond, A, R⁴ and R⁵ being as defined above,

which is then subjected to the action of a compound chosen from:



10

in which X represents a halogen atom, preferably chlorine, R¹, Y and Z being as defined in Claim 1,

15 in the presence of a base, preferably an organic base, and a catalyst, in a polar aprotic solvent, at room temperature, for a time that can range from 1 to 50 hours,

to give the compound of the formula (I) as defined in Claim 1.

17. Pharmaceutical composition comprising a pharmaceutically effective amount of a compound of the formula (I) according to any one of Claims 1 to 15 or 20 obtained via a process according to Claim 16, in combination with one or more pharmaceutically acceptable vehicles.

18. Use of a compound of the formula (I) according to any one of Claims 1 to 15 or obtained via a process according to Claim 16, for the preparation of a 25 medicament for the treatment of hypertriglyceridaemia, hypercholesterolaemia and

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dyslipidaemia associated with diabetes, and also for the prevention of and treating obesity.